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NOTICE OF ALLOWANCE AND FEE(S) DUE

23474

7590

11/23/2009

FLYNN THIEL BOUTELL & TANIS, P.C. 2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631

EXAMINER

LAU, JONATHAN S

ART UNIT PAPER NUMBER

1623 DATE MAILED: 11/23/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,939	10/17/2005	Yoshio Okamoto	3400.P1424US	6864

TITLE OF INVENTION: SEPARATING AGENT FOR ENANTIOMERIC ISOMERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	02/23/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

ppropriate. All further ndicated unless correcte naintenance fee notifical	correspondence including ed below or directed other tions.	g the Patent, advance or serwise in Block 1, by (a	rders and notification of a) specifying a new co	of ma	aintenance fees wi ondence address;	ill be and/or	mailed to the current of (b) indicating a separ	correspondence address as rate "FEE ADDRESS" for
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nonprovisional	NO	\$1510	\$300	\$0			\$1810	02/23/2010
EXAM	EXAMINER ART UNIT CLASS		CLASS-SUBCLASS					
LAU, JON.	ATHAN S	1623	536-115000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, alterr (2) the name of a si registered attorney 2 registered patent a	be printing on the patent front page, list the names of up to 3 registered patent attorneys gents OR, alternatively, the name of a single firm (having as a member a stered attorney or agent) and the names of up to gistered patent attorneys or agents. If no name is d, no name will be printed.				
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The field below, no assignee eletion of this form is NO	data will appear on th	e pat an as	ent. If an assigne ssignment.			ocument has been filed for
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a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
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NOTE: The Issue Fee and	d Publication Fee (if requ		d from anyone other tha	_	-			e assignee or other party in
Authorized Signature					Date			
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FLYNN THIEL	BOUTELL & TANIS	LAU, JON	ATHAN S		
2026 RAMBLING ROAD KALAMAZOO, MI 49008-1631			ART UNIT PAPER NUMBER 1623 DATE MAILED: 11/23/2009		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 526 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 526 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	lo. Applicant(s)			
	10/552,939	OKAMOTO ET AL.			
Notice of Allowability	Examiner	Art Unit			
	Jonathan S. Lau	1623			
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 29 Jun 2009.	(OR REMAINS) CLOSED i or other appropriate comm GHTS . This application is	n this application. If not included unication will be mailed in due course. THIS			
2. ☑ The allowed claim(s) is/are <u>1</u> , 2 and 5-13.					
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE".	been received. been received in Application	on No d in this national stage application from the			
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	ENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 7. ☐ Examiner's 8. ☒ Examiner's 9. ☐ Other /Shaojia Anna	oformal Patent Application formal Patent Application formal Patent Application formal Patent (PTO-413), /Mail Date / Amendment/Comment Statement of Reasons for Allowance Jiang/ stent Examiner, Art Unit 1623			

REASONS FOR ALLOWANCE

This Office Action is responsive to Applicant's Amendment and Remarks, filed 29 Jun 2009, in which claims 1 and 5-11 are amended to change the scope and breadth of the claim and claims 4 and 15 are canceled.

This application is the national stage entry of PCT/JP04/05760, filed 22 Apr 2004; and claims benefit of foreign priority document JAPAN 2003-119710, filed 24 Apr 2003. Currently an English language translation of this foreign priority document has not been made of the record.

Claims 1, 2 and 5-13 are pending in the current application. Claims 5 and 7-11, previously withdrawn as being drawn to non-elected species, are rejoined as detailed in the Office Action mailed 31 Mar 2009. Claims 1, 2 and 5-13 are allowed.

The following is an examiner's statement of reasons for allowance:

Rejections Withdrawn

Applicant's Amendment, filed 29 Jun 2009, with respect to claims 1, 2, 4-13 rejected under 35 U.S.C. 112, first paragraph as not being enabled for the full scope of the claim has been fully considered and is persuasive, as the specification is enabled for the full scope of amended claim 1 and claim 4 is canceled.

This rejection has been withdrawn.

Applicant's Amendment, filed 29 Jun 2009, with respect to claims 5-11 rejected under 35 U.S.C. 112, second paragraph, as being indefinite has been fully considered and is persuasive, as claims 5-8 do not recite the atomic group using an open transitional phrase and claims 9-11 finds sufficient antecedent basis in claim 1 as amended.

This rejection has been withdrawn.

The instant invention as claimed is not taught or fairly suggested by the prior art. The closest prior art is Acemoglu et al. (Chirality, 1998, 10, p294–306, of record) in view of Okamoto et al. (Bull. Chem. Soc. Jpn. 1990, 63, 955-957, of record) as detailed in the Office Action mailed 9/22/08. Acemoglu et al. teaches a separating agent for enantiomeric isomers comprising cellulose substituted with a combination of benzoate,

It would not have been obvious to one of ordinary skill in the art at the time of the invention to combine Acemoglu et al. in view of Okamoto et al. to result in the connectivity of the instant formulas (I) and (IV)-(VIII), such as

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formula (I) of the instant invention. Further, Okamoto et al. suggests the criticality of the functional group of Okamoto et al. based on the carmabate group (page 956, left column paragraph 1 and right column, figure 2). Therefore a polysaccharide substituted with a group represented by general formula (I) of the instant invention, connected by a different functional group, would not have been obvious to one of ordinary to skill in that art by the combination of Acemoglu et al. in view of Okamoto et al.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Claims 1, 2 and 5-13 are in condition for allowance.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan S. Lau whose telephone number is 571-270-3531. The examiner can normally be reached on Monday - Thursday, 9 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Anna Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jonathan Lau Patent Examiner Art Unit 1623 /Shaojia Anna Jiang/ Supervisory Patent Examiner Art Unit 1623